



STYX



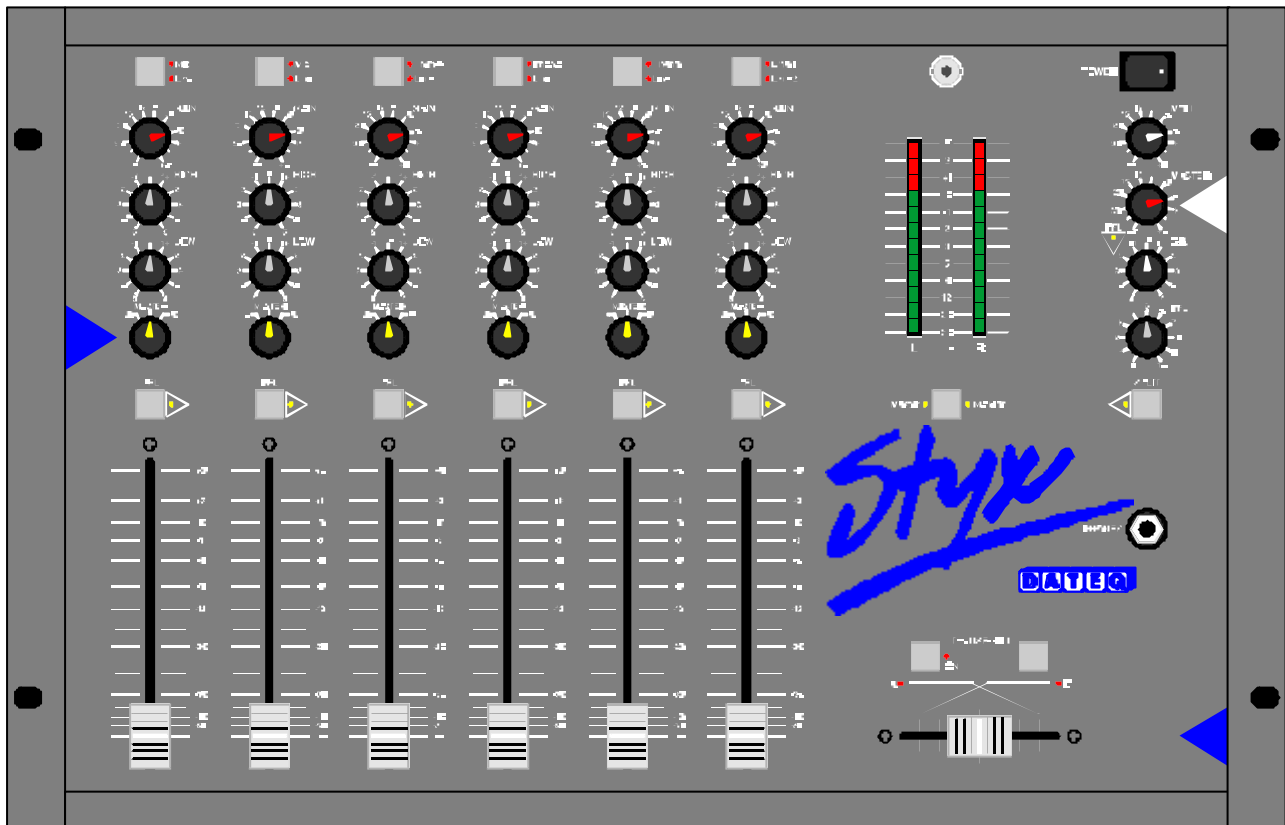
DATEQ
audio technologies

Safety instructions

- 1 All safety instructions, warnings and operating instructions must be read first.
- 2 All warnings on the equipment must be heeded.
- 3 The operating instructions must be followed.
- 4 Keep the operating instructions for future reference.
- 5 The equipment may never be used in the immediate vicinity of water; make sure that water and damp cannot get into the equipment.
- 6 The equipment may only be installed or fitted in accordance with the manufacturer's recommendations.
- 7 The equipment must be installed or fitted such that good ventilation is not obstructed in any way.
- 8 The equipment may never be installed in the immediate vicinity of sources of heat, such as parts of heating units, boilers, and other equipment which generates heat (including amplifiers).
- 9 Connect the equipment to a power supply of the correct voltage, using only the cables recommended by the manufacturer, as specified in the operating instructions and/or shown on the connection side of the equipment.
- 10 The equipment may only be connected to a legally approved earthed mains power supply.
- 11 The power cable or power cord must be positioned such that it cannot be walked on in normal use, and objects which might damage the cable or cord cannot be placed on it or against it. Special attention must be paid to the point at which the cable is attached to the equipment and where the cable is connected to the power supply.
- 12 Ensure that foreign objects and liquids cannot get into the equipment.
- 13 The equipment must be cleaned using the method recommended by the manufacturer.
- 14 If the equipment is not being used for a prolonged period, the power cable or power cord should be disconnected from the power supply.
- 15 In all cases where there is a risk, following an incident, that the equipment could be unsafe, such as:
 - if the power cable or power cord has been damaged
 - if foreign objects or liquids (including water) have entered the equipment
 - if the equipment has suffered a fall or the casing has been damaged
 - if a change in the performance of the equipment is noticedit must be checked by appropriately qualified technical staff.
- 16 The user may not carry out any work on the equipment other than that specified in the operating instructions.



Mix With The Styx!



The Styx has been designed specifically for the use in clubs etc. The mixer has two microphone inputs, three turntable inputs and one line-input. All channels are switchable to an extra stereo line-input. This makes the Styx a 12 input, 6 channel mixing console.

Each channel has a gain-control and a 2-way equaliser. With the (A / MASTER / B) routing select switch every channel can be sent directly to the master output or to the crossfader inputs A or B, giving much more creative possibilities. With this feature you are totally free to select which channels to 'crossfade'.

A connected amplifier is protected against on- and offswitching 'blobs' by means of outputrelais on the master and monitor outputs.

Product support

For questions about the Styx, accessories and other products, please contact:

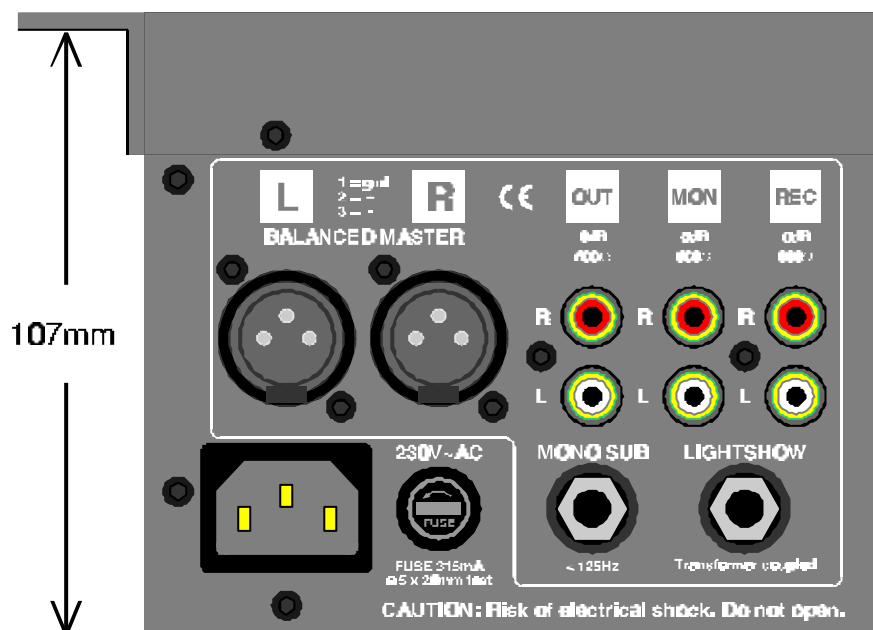
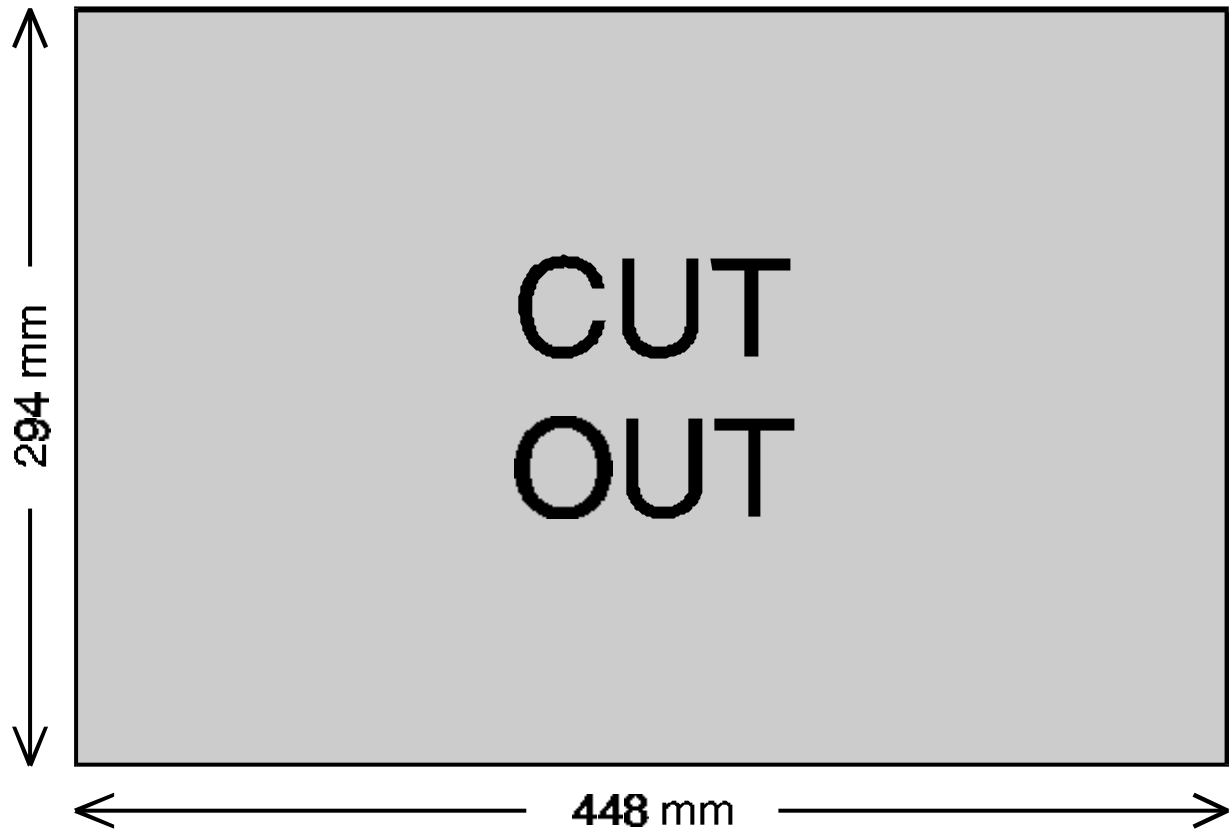
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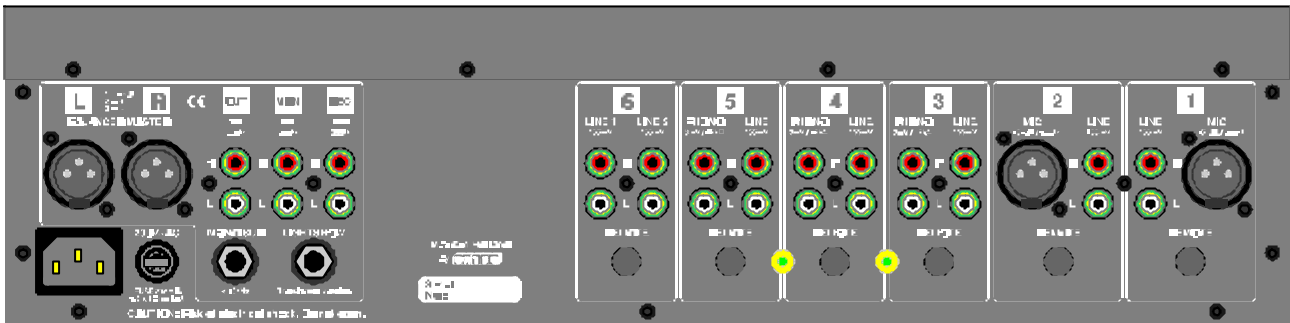
Mounting the Styx

The Styx can be used as stand-alone or built-in (mounted). The housing fits in an opening of 448 x 294 x 107mm (W x H x D). See also the drawings below. When mounting reckon with the extending of the connectors on the backside of the Styx.



Styx Connectorboard

The connections for all audio in- and outputs are situated at the backside of the Styx. The mains inlet and the fuse are also located here.



L / R Balanced Master Outputs (XLR 3-pins male)

| Pin | Function | Type |
|-----|-----------|-------|
| 1 | Audio GND | A-GND |
| 2 | Audio + | Out |
| 3 | Audio - | Out |

Out / Mon / Rec Stereo Outputs (Cinch female)

| Pin | Function | Type |
|--------|-----------|-------|
| Tip | Audio + | Out |
| Shield | Audio GND | A-GND |

Mono Sub / Lightshow Outputs (TRS Jack 3p)

| Pin | Function | Type |
|--------|-----------|-------|
| Tip | Audio | Out |
| Ring | - | - |
| Sleeve | Audio GND | A-GND |

Phones Output (TRS Jack 3p)

| Pin | Function | Type |
|--------|-----------|-------|
| Tip | Left | Out |
| Ring | Right | Out |
| Sleeve | Audio GND | A-GND |

Phono / Line / Line 1 / Line 2 Stereo Inputs (Cinch female)

| Pin | Function | Type |
|--------|-----------|-------|
| Tip | Audio + | In |
| Shield | Audio GND | A-GND |

Balanced Mic Input (XLR 3-pins female)

| Pin | Function | Type |
|-----|-----------|-------|
| 1 | Audio GND | A-GND |
| 2 | Audio + | In |
| 3 | Audio - | In |

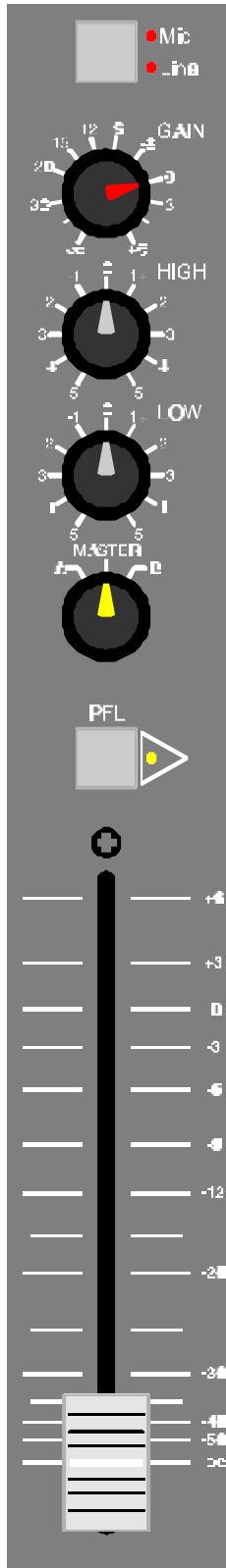
Connections

| | |
|----------------------|--|
| MASTER L / R | Electronically balanced master outputs for the left and right channel on XLR connectors. This type of output guarantees a perfect signal transport even when long audiocables are being used. These outputs are equipped with relays to prevent audible 'blobs' on connected equipment when the Styx is switched on or off. |
| OUT | Unbalanced master output on cinch-connectors. Can be used to connect the Styx to an amplifier or a recorder. |
| MON | Unbalanced monitor output on cinch connectors. Can be used to connect a second amplifier with monitor speakers for the DJ or a second room. |
| REC | Unbalanced recorder output on cinch-connectors. This output is fixed-level (independent from the master volume control). |
| MONO SUB | Unbalanced low-frequency output on jack connector. On this output only signals with a frequency below 125 Hz are present. Extra amplifiers for low-speakers can be connected here. |
| LIGHTSHOW | Unbalanced mono master output on jack-connector. This output is transformer isolated from the mixer. You can connect external light control equipment safely by using this special output. |
| CHANNELS 6..3 | Cinch connectors for all stereo channels. Channel 6 has two identical line inputs. Channels 5..3 have both an input for turntables (Phono) and an input for equipment like CD-players, samplers, keyboards and recorders (Line). When turntables are being used, these must be earthed by means of the earth-clamp. |
| CHANNELS 2..1 | Electronically balanced microphone input on XLR connector. When used unbalanced, connect pin 1 and 3 with the shielding of the cable. Both channels are equipped with a secondary stereo line input. |
| REMOTE | On all channels an optional remote start connector can be delivered. As soon as the fader of the concerning channel is opened, the contact between tip and ring of this mini jack (3,5 mm) connection is made. With this the connected equipment can be remote started. The remote-connection is NOT suitable for switching mains voltage! |
| FUSE | Mains fuse. Dimension 5x20mm (small), 315mA fast. |
| MAINS | Euro-style mains inlet. Before connecting the Styx for the first time, check if your Styx is meant for the mains voltage in your country (label on the connector board at the rear). |

**For all cinch-connectors:
White = Left, Red = Right.**

Microphone channels (1 and 2)

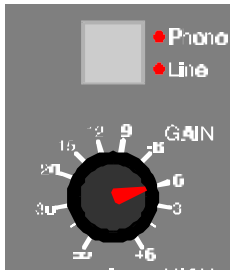
These two channels have been designed to connect microphones. They are equipped with an input selector, volume control, a 2-way tone control optimized for voice, crossfader routing selector and pre-fader listening.



- Mic / Line** Input selector. Normally the Mic input is selected. Pushed in is Line (CD, MD, tape). LEDs indicate which input is selected.
- GAIN** Determines the pre-adjustment of the volume for both the Mic as well as the stereo Line input.
- HIGH** High tones control.
- LOW** Low tones control.
- A / MASTER / B** Signal-routing selector. When switched to A, the signal will flow through the A-side of the crossfader (left) to the master output. In position B, the signal will flow through the B-side of the crossfader (right) to the master output. In the MASTER position, the signal goes directly to the master.
- PFL** Switches pre-fader listening on and off. When this function is active, the headphone will switch to PFL and the input signal of one or more inputs can be heard even though the fader is closed. A LED will indicate whether the PFL-function on this channel is active.
- FADER** 100 mm fader through which the volume of this channel can be determined precisely. The volume of a channel is also controlled by the crossfader if the channel is routed to the A- or B-side of the crossfader.

Turntable/Line channels (3 , 4 and 5)

These three stereo channels each have two inputs (Phono for turntables and Line for equipment like CD-players and MD-recorders), volume control, 2-way tone control, crossfader routing selector and pre-fader listening.

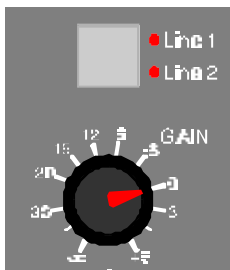


Phono / Line Input selector. Normally the Phono input is selected. Pushed in is Line (CD, MD, tape). LEDs indicate which input is selected.

GAIN Determines the pre-adjustment of the volume for both the Phono as well as the stereo Line input.

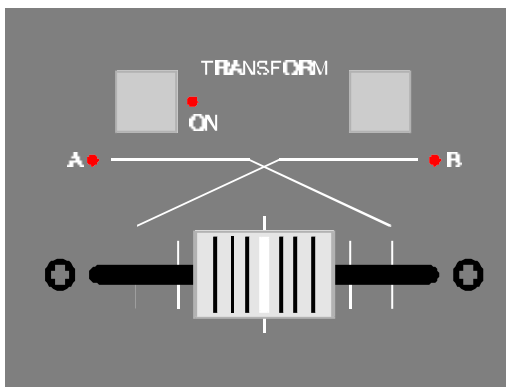
Line Channel (6)

This channel has an input selector for the two identical stereo line inputs (for equipment like CD-players and MD-recorders), volume control, 2-way tone control, crossfader routing selector and pre-fader listening.



Line 1 / Line 2 Input selector. Normally the Line 1 (CD, MD, tape) input is selected. Pushed in is Line 2. LEDs indicate which input is selected.

GAIN Determines the pre-adjustment of the volume for both the Line 1 as well as the Line 2 input.



Crossfader and Transform

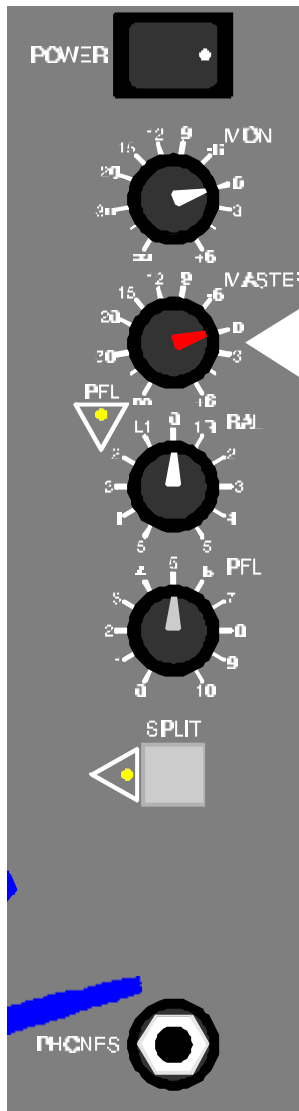
Normally all channels are mixed directly to the master output (with the A / MASTER / B-switch in the center position). However, the channels can also be sent via the A- or B-side of the crossfader to the master. Channels via the A-side cannot be heard with the crossfader in the outmost right position. Channels via the B-side cannot be heard with the crossfader in the outmost left position.

LEDs A and B above the crossfader indicate if the signal is switched to the A-side or the B-side of the cross-fader with a crossfader routing select switch. This avoids mistakes, because you can see immediately if there has been a channel selected on both sides.

With the TRANSFORM ON-switch (left) pushed in (the TRANSFORM ON-LED lights up), both the A- and the B-side of the crossfader will not be heard on the master output. Both crossfader-signals will now only be passed on if the TRANSFORM-switch (right) is pushed in. In this way short fragments can be made audible in a very simple way.

Master section

The master section has volume controls for the various outputs of the Styx and a 2 x 12 segments LED-bar meter which indicates the Master, Monitor or PFL signal level.

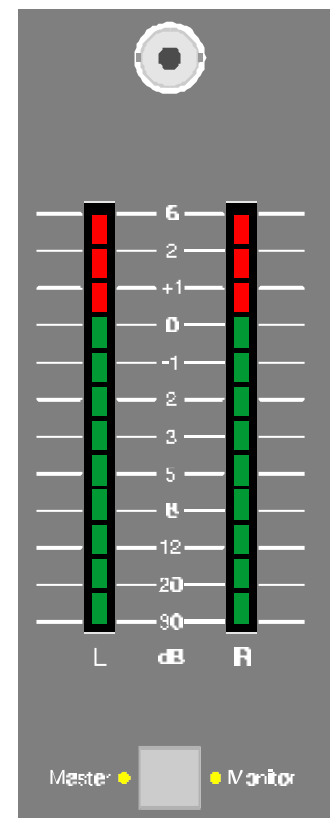


| | |
|----------------|--|
| POWER | Mains power switch. |
| MON | Volume control for the unbalanced stereo Mon(itor) output. |
| MASTER | Volume control for the balanced stereo Master, the unbalanced stereo Out- and unbalanced mono Sub outputs. |
| PFL-led | This LED lights up if the PFL-function is not active and the master signal is audible on the PHONES output. |
| BAL | Determines the balance between the left and the right channel. When in mid-position, the left and right channel can be heard evenly loud. |
| PFL | Volume control for the headphone output. |
| SPLIT | Determines the use of the headphone when PFL is activated. Normally only the stereo PFL signal can be heard. When SPLIT is active (LED lights up) PFL can be heard on the right side of the headphone, the Master signal can be heard on the left side of the headphone. |
| PHONES | Stereo headphone output. |

Meter section

| | |
|-----------------------|--|
| LAMP | BNC-connector for an optional gooseneck lamp (12 VDC, max. 3 W). |
| METER | 2 x 12 segments LED-indication of the Master, Monitor or PFL level. An operation level of approximately 0dB is normal. |
| Master/Monitor | This switch selects the signal that is indicated by the meter. Each time it is pressed, the meter toggles between the Master and Monitor signal. The currently selected signal is indicated by LEDs. |

Technical specifications



MONO INPUT

| | |
|----------------------------|---------------------------------------|
| MIC (channel 1 and 2)..... | XLR-3 female, electronically balanced |
| Signal level..... | -54 dB @ 600 Ω variable |
| Impedance..... | 3 k Ω nominal |
| Input noise..... | < -107 dB (IHF-A) |
| Headroom..... | +20 dB |

STEREO INPUTS

| | |
|---------------------------------|---------------------------------|
| PHONO (channel 3, 4 and 5)..... | Cinch |
| Signal level..... | -42 dB @ 47 k Ω variable |
| Input impedance..... | 47 k Ω / 25pF nominal |
| Input noise..... | > -80 dB (IHF-A) |
| Channel separation..... | > 65 dB @ 1 kHz |
| LINE (channel 1..6)..... | Cinch |
| Signal level..... | -14 dB @ 600 Ω variable |
| Input impedance..... | 22 k Ω nominal |
| Input noise..... | > -80 dB (IHF-A) |
| Channel separation..... | > 65 dB @ 1 kHz |

TONE CONTROL**EQUALISER MIC**

| | |
|-----------|------------------------------|
| High..... | 10 kHz \pm 15 dB, Shelving |
| Low..... | 80 Hz \pm 15 dB, Shelving |

EQUALISER LINE

| | |
|-----------|------------------------------|
| High..... | 12 kHz \pm 15 dB, Shelving |
| Low..... | 50 Hz \pm 15 dB, Shelving |

OUTPUTS

| | |
|-----------------------------------|--|
| BALANCED MASTER (XLR)..... | +6 dB balanced / 600 Ω / variable |
| MASTER OUT / MONITOR (Cinch)..... | 0 dB unbalanced / 600 Ω / variable |
| RECORDER (Cinch)..... | 0 dB unbalanced / 600 Ω / fixed level |
| MONO SUB (6,3 mm TRS Jack)..... | 0 dB unbalanced / 600 Ω / < 125 Hz |
| LIGHTSHOW (6,3 mm TRS Jack)..... | 0 dB unbalanced / 10 k Ω / transformer isolated |
| PHONES (6,3 mm TRS Jack)..... | 0,3 W @ 4 Ω / Impedance 4..32 Ω |

FREQUENCY RESPONSE

| | |
|---------------------------------|----------------------|
| MIC TO MASTER..... | 80 Hz...25 kHz -1 dB |
| ALL OTHER INPUTS TO MASTER..... | 20 Hz...25 kHz -1 dB |
| THD + IM..... | 0,05 % nominal |

GENERAL**POWER SUPPLY**

| | |
|------------------------|-----------------------|
| Mains voltage..... | 220...240 VAC / 50 Hz |
| Power consumption..... | 20 W |
| Lamp connection..... | BNC 12 VDC / 3 W |

SIZE AND WEIGHT

| | |
|-------------|---------------------------------|
| Front..... | 483 x 310 mm (W x H) = 19", 7HE |
| Cutout..... | 448 x 294 mm (W x H) |
| Depth..... | 107 mm |
| Weight..... | 5,6 kg Net. |